



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,890	01/25/2002	Joo-sun Hong	Q66377	5435
23373 7590 08/22/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER JONES, HEATHER RAE	
			ART UNIT 2621	PAPER NUMBER
			MAIL DATE 08/22/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Advisory Action
Before the Filing of an Appeal Brief**

Application No.

10/054,890

Applicant(s)

HONG, JOO-SUN

Examiner

Heather R. Jones

Art Unit

2621

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 03 August 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
(a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ They raise the issue of new matter (see NOTE below);
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: 1-12.
Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See attached sheet.
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____.
13. ☒ Other: _____.

Response to Arguments

1. Applicant's arguments filed August 3, 2007 have been fully considered but they are not persuasive.

The Applicant argues on page 2, line – page 3, line 2 that Takihara fails to disclose the claimed memory, the claimed interface portion, the claimed recording and reproducing portion, and the control, which all constitute a hard disk module. The Examiner respectfully disagrees. Takihara discloses in Fig. 5 a hard disk module (2) comprising: a memory (122 and 123), an interface portion (125, which is connected to 357 of the motherboard in Fig. 3), a recording and reproducing portion (124) (col. 10, lines 4-18), and a control portion (121). Therefore, Takihara meets the claimed limitations and the rejection is maintained.

The Applicant argues on page 3, line 28 – page 4, line 2 that Takihara fails to disclose a main board mounted on a modular television. The Examiner respectfully disagrees. The Examiner discloses that the PC module of Fig. 3 corresponds to the main board represented as reference character "1" in Fig. 1 and that the hard disk module is reference character "2" in Fig. 1. Fig. 3 is a blown-up interpretation of the PC module (1) depicted in Fig. 1, which is what the Examiner is considering the main board. Furthermore, Takihara discloses in col. 8, lines 64-67 that a 1394 interface (I/F) of the mother board is connected to the MPEG1 Video deck module "2" (hard disk module "2"), which is the same setup disclosed by the Applicant. Furthermore, the Examiner is disclosing the modular

television as being the combination of the components "1" and "11" as shown in Fig. 1 because in order for the television to work and display data from various outside components the modular television must include a motherboard "1" and a display "11". Therefore, with those interpretations Takhara meets the claim limitations.

The Applicant argues on page 4, lines 21-24 that there is no specific teaching or suggestion of a memory having a program stored therein for controlling the entire components connected to a bus disposed inside the hard disk drive in the Takhara reference. The Examiner respectfully disagrees. Takhara discloses a memory (122 and 123) in the hard disk module in Fig. 5 having a program stored therein for controlling all the components inside the hard disk module, which are described in col. 10, lines 5-8 - a CPU (121) that executes various processes in accordance with a program stored in a ROM (122). Data necessary for the CPU (121) to execute various processes are stored suitably into a RAM (123). Therefore, Takhara meets the claimed limitations and the rejection is maintained.

The Applicant argues on page 5, lines 3-9 that Official Notice should have been taken for a hard disk being initialized by a control portion when the control portion receives the IRQ signal. The Examiner respectfully disagrees. Initializing a hard disk by a control portion when the control portion receives the IRQ signal is well known in the art as can further be seen from the evidence provided by Belt et al. (U.S. Patent 5,446,904) and Doragh et al. (U.S. Patent 5,822,582). Belt et

al. discloses a system capable of carrying out a suspend and resume operation without maintaining power to the main system memory by allowing the disk drive to get up to speed when powered back on and then sending an interrupt signal to initialize the disk (col. 4, lines 51-53; col. 85, lines 10-13 and 17-21).

Furthermore, Doragh et al. discloses in a standard IBM compatible personal computer the Basic Input/Output System (BIOS) accesses the floppy and hard disk drives by performing an interrupt function that supported tasks such as initialization (col. 2, lines 5-23). Therefore, Belt et al. and Doragh et al. support the Official Notice statement and the rejection is maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather R. Jones whose telephone number is 571-272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2621

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones
Examiner
Art Unit 2621

HRJ
August 17, 2007



JOHN MILLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600